

## Update Number 2



# HERCULANEUM LEAD SMELTER SITE Lead Removal

Herculaneum, Missouri

June 2002

The U.S. Environmental Protection Agency (EPA) has produced this Update to keep you abreast of site activities, cleanup progress and address your concerns. Our goal is to provide an overview of the site, the problems found, the actions we have taken to address your concerns, as well as future plans.

### **U.S. Environmental Protection Agency**

#### **State Implementation Plan or SIP**

On April 16, 2002, EPA posted in the Federal Register, final approval of the Missouri Department of Natural Resources (MDNR) revised State Implementation Plan (SIP) for the Doe-Run Herculaneum facility. After responding to public comments, EPA has determined the SIP met the applicable requirements under the Clean Air Act to demonstrate attainment of the National Ambient Air Quality Standard for lead. The attainment date for this SIP is set for August 14, 2002; if attainment is not achieved, Doe Run will be required to implement contingency measures to reduce their ambient emissions of lead.

For further information on this SIP, please refer to the Federal Register at the following web-site:

<http://www.epa.gov/fedrgstr/EPA-AIR/2002/April/Day-16/a8950.htm>.

If you have any questions regarding this approval, please feel free to contact James Hirtz, EPA Region 7, at 1-913-551-7472 or e-mail him at [hirtz.james@epa.gov](mailto:hirtz.james@epa.gov).

#### **Monitored Air Emissions**

Doe Run has reported that ambient monitoring data for the month of April 2002 at the Broad Street monitor has averaged 3.12 micrograms of lead per cubic meter of air sampled. The National Ambient Air Quality Standard is 1.5 micrograms of lead per cubic meter of air averaged over a calendar quarter. Since data for the months of May and June are not yet available, no conclusion can yet be made as to whether or not the Standard has been exceeded.

The above data was reported by Doe Run on the monitors that the company operates. Data for April 2002 from monitors operated by the MDNR was not available at the time this Update was printed.

Doe Run enclosed the refinery area in July 2001. For the first quarter of 2002, all the monitors in Herculaneum met the Ambient Air Quality Standard for lead. Enclosure of the blast furnace is required to be completed by July 31, 2002. Beginning with the third quarter of 2002, further violations of the Ambient Air Quality Standard for lead will require the installation of additional contingent controls and potentially could result in a production cap on the facility.

### **Yard and Home Cleanups**

Yard soil replacements are continuing on schedule. Some repairs have been necessary and some delays have occurred due to the rainy spring weather. As of May 2, 2002, 86 yards were completed. Sixty-three homes have had their interior living-space cleaned. All known residential properties where access has been granted, with yard soil concentrations exceeding 400 parts per million (ppm) lead, and where children up to 6 years old reside have had their yard soils replaced. Where access has been granted, the interior living space of these homes has also been cleaned. All homes, parks, playgrounds, and schools with soil lead concentrations exceeding 10,000 ppm are scheduled to be the next areas to have their contaminated soils (soil levels exceeding 400 ppm) replaced.

### **Monitoring for Recontamination**

EPA is currently sampling surface soils at 18 different locations on a monthly time

schedule. This sampling will be conducted for the indefinite future for the purpose of monitoring for any rise in soil lead concentrations.

EPA has also begun the sampling of 13 home interiors for the purpose of monitoring for increases in dust lead concentrations. As part of this monitoring, additional sampling techniques are also being implemented to measure potential lead dust remaining in carpets. These techniques include vacuum dust sampling for lead concentration and lead loading, as well as wipe sampling. Sampling results will be submitted to state and federal health agencies to determine the health risks posed by any detected lead dust.

### **Ground Water Monitoring Status**

Ground water monitoring has been conducted around the slag pile by Doe Run since 1987. This data is reported to MDNR's Land Reclamation Program as part of Missouri Metallic Minerals Law permitting requirements. The data are inconclusive, but in general show low level impacts to the shallow ground water.

Maximum Contaminant Level exceedances for lead, nickel, and cadmium have been noted on an occasional basis. EPA and MDNR plan on splitting samples with Doe Run and evaluating their monitoring network in the near future to confirm ground water conditions. Public drinking water wells for the city of Herculaneum are up gradient of the slag pile and the facility and have not been impacted by Doe Run's operations in Herculaneum.

## **HEPA Vacuum Cleaners Available**

HEPA stands for high-efficiency particulate arresting, which means that very small dust particles can be captured by the filter system on the exhaust system of the vacuum. EPA is providing one HEPA vacuum cleaner per household for Herculaneum residents that have confirmed yard soil concentrations of lead exceeding 400 ppm, and have not been provided a vacuum cleaner from Doe Run. To receive your HEPA vacuum, you must visit the EPA trailer located at 351 Station Street. An EPA representative will provide you with a certificate that will enable you to receive your vacuum. You will need to bring a picture ID and recent utility bill with you when you pick up your certificate. Your certificate can be redeemed for the HEPA vacuum cleaner at Twin City Janitorial located at 1230 Commercial Blvd., in Herculaneum. You should follow the instructions for filter replacement frequency listed in the operating manual provided with your HEPA vacuum.

## **Complaints on Yard Replacement and Interior Cleaning**

If you wish to register complaints about the work performed on your yard soil replacement or interior cleaning, you should contact Jim Silver at 636-475-3926, Monday through Friday. Jim is an On-Scene Coordinator with the EPA. He will forward complaints to Doe Run and coordinate followup actions taken in response to complaints.

## **Missouri Department of Natural Resources**

The final settlement agreement between the MDNR, Attorney General's Office,

Department of Health and Senior Services and the Doe Run Company was signed April 26, 2002. The written agreement formalized the agreement in principle reached March 21, 2002.

The agreement resolves the September 25 order issued by the Department of Natural Resources and several notices of violation issued to the company. It does not relieve Doe Run from compliance with the Administrative Order on Consent issued May 2001, subsequent orders issued by EPA, or any future compliance with any applicable federal or state law or rule. It also does not affect any other ongoing or planned activities at the site to address air quality or contamination problems.

The centerpiece of the agreement is the voluntary property purchase. This part of the agreement requires Doe Run to offer to purchase homes within a defined area. The defined area contains approximately 160 homes for which Doe Run will be required to make a purchase offer by December 31, 2004. Offers will be made in phases; priority is based on health risks. The company will make the first set of offers to homeowners with children less than 72 months of age residing in the home. The company will make the rest of the offers over a period of time ending December 31, 2004. All offers will remain open until that date. The Doe Run Company **may not** condition any property acquisition on the homeowner providing a release from liability.

In order to ensure homeowners receive a fair offer for their home, offers will be based on a combination of "fair market value" and a "Replacement Housing Payment" (RHP). Fair market value will be based on an

appraisal of the home by an independent appraiser using the Uniform Standards of Professional Appraisal Practice. The RHP is a differential payment which will be computed by subtracting the fair market value from the value of a suitable replacement home currently for sale on the market of similar size, function/purpose and location (including no known adverse environmental conditions.) This process is designed to ensure homeowners are not penalized by any decrease in property value resulting from contamination.

Upkeep of the acquired properties will be the responsibility of the Doe Run Company. Homes left standing must remain vacant until such time as either the company demolishes the residence or redeposition studies of lead contamination are complete and the Department of Health and Senior Services, the Department of Natural Resources, the city of Herculaneum and the company agree re-occupancy of a residence will not risk human health. If the Doe Run Company fails to comply with the provisions related to the voluntary property acquisition, they will be required to pay a civil penalty of \$1 million.

The agreement also addresses transportation and materials handling through the Transportation and Materials Handling Plan which has not been approved yet.

For more information on the buyout agreement, contact the MDNR at 1-800-361-4827.

### **Missouri Department of Health and Senior Services**

#### **Upcoming Community Meeting with Physicians**

On June 13, 2002, a public meeting with

physicians to discuss health-related issues concerning adults and children will be held at the AMVETS Hall Post 42, at the junction of Brown and Joachim, from 7 to 9 p.m. The physicians are from Cardinal Glennon Children's Hospital in St. Louis and Children's Mercy Hospital in Kansas City. To help make this meeting a success, please submit questions you would like the physicians to answer in advance to the Department of Health and Senior Services (DHSS) by:

- calling 1-800-392-7245 or
- mailing to Lorena Anderson, Missouri Department of Health and Senior Services, 930 Wildwood, Jefferson City, MO 65109 or
- E-mailing to [anderl@dhss.state.mo.us](mailto:anderl@dhss.state.mo.us) (In subject area, please put "Questions for Physicians Meeting")

#### **Resident Registry Form Needed for Possible Future Health Studies**

In anticipation of possibly conducting future health studies, DHSS is establishing a registry of current Herculaneum residents. Should people move out of Herculaneum, the Registry would allow us to maintain contact with them should they want to participate in any future studies.

DHSS has mailed a form to every occupied residence in Herculaneum. DHSS is asking household residents to complete and return the form in the envelope we provided. The form asks for information on household residents and for contact information of two non-household members who would always know how to get in contact with you.

If you have returned the form, thank you. If you haven't returned the form, please do so as soon as possible. If you didn't receive a form, please contact Scott Clardy at 1-573-751-6111.

### Upcoming Health Consults

DHSS has completed three health consults which are currently being reviewed by the Agency for Toxic Substances and Disease Registry. The health consults discuss the potential for Arsenic and Cadmium to cause adverse health effects based on levels known to be in the community, the effectiveness of

the indoor sampling plan, and the potential for adverse health effects from exposure to lead in the schools.

Based on the Community Advisory Group members wishes, DHSS plans on releasing them to the press as soon as they are finalized. The DHSS Health Consults regarding Herculaneum issues are available on our website at

[www.dhss.state.mo.us/PreventionAndWellness/EnvironHealth.html](http://www.dhss.state.mo.us/PreventionAndWellness/EnvironHealth.html)

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## HERCULANEUM LEAD SMELTER SITE CONTACT LIST

If you have questions, please contact:

### Health Information

Agency for Toxic Substances  
and Disease Registry  
Denise Jordan-Izaguirre  
1-913-551-1310

### Site Information/Temporary Relocation

EPA Region 7  
Tony Petruska  
Bruce Morrison  
1-800-223-0425

Missouri Department of Health  
and Senior Services

Gale Carlson  
1-800-392-7245  
1-800-392-0272  
email: [carlsg@dhss.state.mo.us](mailto:carlsg@dhss.state.mo.us)

### Site Information

Missouri Department of  
Natural Resources  
Karen Cass  
Dave Mosby  
1-573-751-8629  
1-800-361-4827

Jefferson County Health Department  
636-789-3372

### Herculaneum Lead Smelter Site Community Advisory Group

Angela Searingen, Chairperson  
636-475-3319

### Primary Focus Group Contact

Hattie Thomas  
EPA Region 7  
901 N. 5<sup>th</sup> Street  
Kansas City, Kansas 66101  
1-913-551-7003  
1-800-223-0425  
email: [thomas.hattie@epa.gov](mailto:thomas.hattie@epa.gov)